ABSTRACT OF THE DISCLOSURE

A magnetic resonance imaging apparatus comprises
an RF coil unit which generates RF pulses toward
a subject, and which receives an MR signal from the

5   subject, gradient magnetic field coils which generate
a gradient magnetic field for slice selection,
a gradient magnetic field for phase encoding and
a gradient magnetic field for frequency encoding,
respectively, an arithmetic unit which generates image

10   data on the basis of the MR signal, and a sequence
controller which controls the second gradient magnetic
field coils in order to generate flow pulses for
dephasing or rephasing a spin of a blood flow within
the subject, in the same direction as that of the phase

15   encoding gradient magnetic field.